

**Enclosure: FOIA Request # EPA-R5-2017-006799 - Index to documents**

The requestor narrowed the scope of the request to exclude some items listed in the administrative record, such as websites and publicly available documents, via an email dated 5/3/2017. In order to keep the document numbers in the below index the same as in the Administrative Record Index for the Energex Petroleum, Inc. well Lanphar 1-12, EPA #MI-125-2R-0003, the items excluded from the request scope are crossed out and their document numbers skipped.

<u>Doc</u>	<u>Date</u>	<u>Title/Description/Subject</u>
1	3/31/15	UIC permit application: Lanphar 1-12 DRAFT Permit #MI-125-2R-0003, Oakland County, Michigan
2	9/3/15	RE: Energex Application for Lanphar 1-12 (EPA UIC draft #MI-125-2R-0003); email, 10:08 am
3	Undated	Additional information for the Underground Injection Control Permit Application #MI-125-2R-0003 Lanphar 1-12 injection Well (received)11/25/15
4	1/4/16	RE: Energex Application for Lanphar 1-12 (EPA UIC draft #MI-125-2R-0003) w/attachment "Energex_Bonding.pdf; email, 10:03 am
5	2/26/16	Email: Energex Bond Confirmation Letter; email; 9:40 am
6	2/25/16	Bond Confirmation Letter
7	6/30/16	email: Energex Lanphar 1-12 Injection Well Application - Additional information (re: fractures) with attachment; email;1:18 pm
<del>8</del>	<del>*</del>	<del>U.S. EPA Draft Permit, Underground Injection Control Permit, Class II, #MI-125-2R-0003, Lanphar 1-12</del>
<del>9</del>	<del>*</del>	<del>Statement of Basis for U.S. EPA Draft Permit, Underground Injection Control Permit, #MI-125-2R-0003, Lanphar 1-12</del>
<del>10</del>	<del>NA</del>	<del>Safe Drinking Water Act (publicly available online)</del>
<del>11</del>	<del>NA</del>	<del>Safe Drinking Water Act regulations at 40 C.F.R. Parts 144 and 146 (publicly available online)</del>
12	3/27/15	Email: Energex Application for gas injection; 11:36 am
13	3/27/15	Email: Re: Energex Application for gas injection; 12:52 pm
14	3/27/15	Email: Re: Energex Application for gas injection; 11:56 am
15	3/27/15	Email: Re: Energex Application for gas injection; 2:53 pm
16	4/21/15	EJScreen Report et al
17	5/5/15	Completeness review letter, #MI-125-2R-0003, Lanphar 1-12
18	August-Sept. 2015	Calculations for proposed well construction, AOR wells, and maximum allowable injection pressure
19	9/3/15	RE: Energex Application for Lanphar 1-12 (EPA UIC draft #MI-125-2R-0003); email, 9:30 am
20	9/3/15	RE: Energex Application for Lanphar 1-12 (EPA UIC draft #MI-125-2R-0003)

21	9/30/15	Letter request for additional information for the permit application to Energex email; 10:08 am
22	10/26/15	RE: Energex Application for Lanphar 1-12 (EPA UIC draft #MI-125-2R-0003) email; 11:53 am
23	12/17/15	MDEQ GeoWebface printout, AOR map and wells in AOR
24	2/21/17	Memo to file: Endangered species determination, #MI-125-2R-0003, Lanphar 1-12, Oakland County, Michigan
25	12/22/15	RE: Energex Application for Lanphar 1-12 (EPA UIC draft #MI-125-2R-0003) email; 11:58 am
26	12/22/15	EPA letter to SHPO
27	12/29/15	USGS Geologic Hazards Science Center/2009 Earthquake Probability Mapping application, <a href="https://geohazards.usgs.gov/eqprob/2009/index.php">https://geohazards.usgs.gov/eqprob/2009/index.php</a>
28	12/29/15	The United States Geological Survey (USGS) Site. Earthquake Hazards Program, Global Earthquake Search (Beta) Application. Web. 11 April 2013. <a href="http://earthquake.usgs.gov/earthquakes/states/michigan/seismicity.php">http://earthquake.usgs.gov/earthquakes/states/michigan/seismicity.php</a>
29	12/29/15	MDEQ GeoWebface printout, AOR map and water wells
30	2/2/16	FW: Bond Confirmation - Energex Petroleum (USA) LLC; email; 10:23 am
31	3/9/16	Email: Information Inquiry for EPA UIC permit MI-125-2R-0003, Lanphar 1-12 Well; to Michigan State Archeologist about well site; email; 5:22 pm
32	3/15/16	Email Re: Information Inquiry for EPA UIC permit MI-125-2R-0003, Lanphar 1-12 Well; request for clarification from State Archaeologist; 7:59 am
33	3/15/16	Email response and clarification to State Archeologist; 3:14 pm
34	3/17/16	Re: Information Inquiry for EPA UIC permit MI-125-2R-0003, Lanphar 1-12 Well; email; 6:46 am
35	5/19/16	Memo to file: NHPA compliance determination of no effect
36	6/13/16	Email: Lanphar # 1-12; request for faults/fracture in AoR information; 11:52 am
37	6/14/16	Email: RE: Lanphar # 1-12; request for faults/fracture in AoR information (response to email); 8:59 am
38	10/7/16	Memo to file: USDW and Confining Zone
39	2/21/17	Memo to file re: fracture and seismic potential review, #MI-125-2R-0003, Lanphar 1-12, Oakland County, Michigan
40	7/13/16	Printout: water well records for Oakland County, T05N, R11E, Section 12; Scanned Water Well record retrieval System, <a href="http://www.deq.state.mi.us/well-logs/">www.deq.state.mi.us/well-logs/</a>  <i>This document requires redactions under FOIA Exemption 6, 5 U.S.C § 552(b)(6). Exemption 6 protects 'personnel and medical files and similar files the disclosure of which would constitute a clearly unwarranted invasion of personal privacy.'</i>

41	Apr. 2015	USFWS Factsheet: Northern long-eared bat ( <i>Myotis septentrionalis</i> ), Apr. 2015
42	Dec. 2006	USFWS Factsheet: Indiana Bat ( <i>Myotis sodalis</i> ), Dec. 2006
43	Jan. 2012	USFWS Factsheet: Rayed Bean ( <i>Villosa fabalis</i> ), Jan. 2012
44	Jan. 2012	USFWS Factsheet: Snuffbox ( <i>Epioblasma triquetra</i> ), Jan. 2012
45	9/30/15	USFWS News release re: designated Critical Habitat, Poweshiek skipperling. (9/30/2015)
46	Oct. 2015	USFWS Factsheet: Poweshiek skipperling ( <i>Oarisma poweshiek</i> ), Oct. 2015
47	Oct. 2015	USFWS Critical Habitat maps: Poweshiek skipperling, Oakland County, Michigan, Oct. 2015
48	Sept. 2016	USFWS Factsheet: Eastern Massasauga ( <i>Sistrurus catenatus</i> ) September 2016
49	1981	<del>Hydrogeologic Atlas of Michigan (atlas maps), Department of Geology, Western Michigan University, Kalamazoo, Michigan, 1981</del>
50	1981	Michigan Hydrogeologic Atlas, Part I: Hydrology for Underground Injection Control in Michigan, Department of Geology, Western Michigan University, Kalamazoo, Michigan, 1981
51	2000	Stratigraphic Nomenclature for Michigan, Michigan Department of Environmental Quality, 2000 (Michigan stratigraphic column)
52	2007	<del>Apple, Beth A. and Howard W. Reeves—Summary of Hydrogeologic Conditions by County for the State of Michigan—U.S. Geological Survey Open File Report 2007-1236, 87 pp. Date Posted: September 21, 2007: <a href="http://pubs.water.usgs.gov/ofr2007-1236/">http://pubs.water.usgs.gov/ofr2007-1236/</a></del>
53	3/12/80	Lanphar #1-12 well log, dated 3/13/80 - Michigan Department of Environmental Quality (MDEQ) GeoWebFace Accesible Maps, Data, Files Application 2013, <a href="http://ww2deq.state.mi.us/GeoWebFace/#">http://ww2deq.state.mi.us/GeoWebFace/#</a>
54	NA	<del>Michigan Department of Environmental Quality (MDEQ) GeoWebFace Accesible Maps, Data, Files Application 2013, <a href="http://ww2deq.state.mi.us/GeoWebFace/#">http://ww2deq.state.mi.us/GeoWebFace/#</a></del>
55	10/14/16	Water well data search: Michigan Department of Environmental Quality (MDEQ) GeoWebFace Accesible Maps, Data, Files Application 2013, <a href="http://ww2deq.state.mi.us/GeoWebFace/#">http://ww2deq.state.mi.us/GeoWebFace/#</a>
56	2/2/15	<del>"Minimizing and Managing Potential of Injection-Induced Seismicity from Class II Disposal; Practical Approaches" <a href="https://www.epa.gov/sites/production/files/2015-08/documents/induced-seismicity-201502.pdf">https://www.epa.gov/sites/production/files/2015-08/documents/induced-seismicity-201502.pdf</a></del>
57	3/16/17	email: RE: Energex Injection Well Application Lanphar 1-12; 3:42 am

58	3/17/17	email: RE: Energex Injection Well Application Lanphar 1-13; 11:40 am
59	3/20/17	Conversation record: Maximum injection pressure for the proposed well Lanphar 1-12 (record of conversation with Duncan Hamilton, Energex re: MIP calculation).
60	3/24/17	CO <sub>2</sub> Calculator - a web computational tool; Penn State Earth and Mineral Science Energy Institute; <a href="http://www.energy.psu.edu/tools/CO2-EOS">www.energy.psu.edu/tools/CO2-EOS</a> .
61	3/24/17	Memo to file: maximum injection pressure calculation for the Lanphar 1-12 proposed injection well